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Clinical impact of early diagnosis of autism on the prognosis and parent–child relationships

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Abstract: Autism spectrum disorder (ASD) refers to a lifelong condition that usually appears in late infancy or early childhood, and is characterized by social and communication deficits that impede optimal functioning. Despite widespread research and greater public awareness, ASD has an unclear etiology and no known cure, making it difficult to acquire accurate and timely diagnoses. In addition, once an ASD diagnosis is made, parents find it challenging to navigate the healthcare system and determine which interventions are most effective and appropriate for their child. A growing body of evidence supports the value of early diagnosis and treatment with evidence-based interventions, which can significantly improve the quality of life of individuals with ASD as well as of their carers and families. Particularly noteworthy are early interventions that occur in natural surroundings and can be modified to address age-related goals throughout the lifespan. Therefore, the purpose of this review is to: 1) provide readers with a brief background related to ASD; 2) describe commonly used screening instruments and tools for early diagnosis; 3) describe early interventions that have empirical support; and 4) discuss how the parent–child and family relationships can be affected through this process. This information can provide professionals with information they can use to assist families who make critical and potentially life-changing decisions for children with ASD.

Keywords: autism spectrum disorder, ASD, early diagnosis, early intervention, parent–child relationship

Introduction

Autism spectrum disorder (ASD) refers to a group of neurodevelopmental conditions characterized by a wide range of symptoms, skills, and levels of disability. First described in the 1940s by Leo Kanner,1 autism was once considered to be a rare condition. Despite the consensus that ASD diagnoses occur more frequently today, researchers continue to debate whether this is a result of new cases or simply the availability of better diagnostic measures, or even a combination of both. Regardless, one cannot dismiss the fact that the Centers for Disease Control and Prevention (CDC) notes that ASD is a prevalent condition, with 1 in 68 children identified with some form of ASD.2 Symptoms appear in the first 2 years of life and affect the individual’s ability to function socially, at school, at work, or in other areas of life. Although current treatments vary, most interventions focus on managing behavior and improving social and communication skills to enable optimal social functioning and independence.3–8

When determining the presence of ASD, clinician appraisal of ASD symptoms remains the current standard for diagnosis. Diagnostic criteria were revised in 2013 with the fifth edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-5),
which delineates two core ASD symptoms: persistent social and communication deficits and the presence of restricted, repetitive patterns of behaviors and/or interests, and sensory differences. Additionally, ASD severity, which categorizes the impact of symptoms on the individual’s adaptive functioning, is now considered in the diagnostic process. Advances in ASD science challenge traditional conceptualizations of ASD as a discrete phenotype and, instead, posit that ASD exists along a continuum of neurodiversity. Indeed, multiple studies have applied quantitative measurements to ASD symptoms and traits and demonstrated the continuous distribution of ASD traits across human populations. As a result, some researchers now support the use of standardized, percentile-based descriptions of ASD symptom manifestation. These percentile-based methods have been used successfully in the characterization of other quantifiable clinical conditions, such as anorexia nervosa and hypertension. At present, expert clinical judgment is required to evaluate the presence of significant impairment in the core symptom areas, thus determining the presence (or absence) of ASD.

Some individuals with ASD are mildly impaired by their symptoms, whereas others are profoundly impaired. Although the heterogeneity in ASD is well-accepted, the range of ASD symptoms can be classified into broad categories of core symptoms and secondary symptoms. Secondary symptoms can include conditions such as intellectual impairment, which occurs in approximately 50% of patients with ASD, self-injury, aggressiveness toward others, sleeping disorders, eating disturbances, and seizures. Additionally, for individuals with ASD, symptom manifestation can change throughout the lifespan. For instance, language difficulties and hyperactivity that is often seen in younger children can shift to relational problems, mood dysregulation, and hypoactivity in adolescence and young adulthood. In summary, characterizing ASD can be challenging, but progress has been made in refining diagnostic processes that can be addressed over the lifespan.

Search methodology

In recognition of how rapidly the field of ASD has changed, a state-of-the-art science review was conducted, as described by Grant and Booth, whereby the purpose is to provide broad and up-to-date information related to the early diagnosis and treatment of ASD. This included a PubMed search for literature related to three major concepts: parent–child relationships, autism, and diagnosis. The search for the parent–child relationships concept was conducted using the expanded major MeSH term “Parent-Child Relations” or any one of these phrases in the title or abstract: “parent-child relationship”, “mother-child relationship”, or “father-child relationship”. Similarly, we searched for the autism concept using the MeSH terms “Autistic Disorder” or “Autism Spectrum Disorder”, or the presence of the truncated word autis* in the title. Finally, the concept of diagnosis was searched for very broadly with the term “diagnosis” in the title, abstract, or MeSH terms. In order to ensure a thorough review of the literature, a secondary search was also run; in this search, 1) the criteria for the parent–child relationships concept was broadened to include non-major MeSH terms, and 2) emphasis was placed on early diagnosis and interventions, which led to searches for the terms “early” and “diagnosis” in the title, abstract, or MeSH terms of the records.

The search was conducted on March 16, 2017, with a narrower scope for early diagnosis and then a broader scope for parent–child relationship. This yielded an initial result set of 53 records, which was narrowed down to 31 after a review of the title/abstract. The second search, which included broader search terms related to diagnosis, but narrower terms related to the parent–child relationship, retrieved 98 records, 60 of which were included after a review of the title/abstract. No filters were used in either search strategy. Inclusion criteria used to conduct the title/abstract review were: 1) English-language observational or interventional studies, 2) examining children with ASD, 3) including data/information about time/age of diagnosis, and 4) including data/information about the quality of the parent–child relationship. Studies that focused on the well-being of parents of children with ASD or examined parent–child relationships as the cause of specific ASD characteristics were excluded. The following discussion and concluding recommendations are based on results of this search.

The ASD screening and diagnostic instruments described in Table 1 were selected from an extensive search of ASD screening literature. The most recent search for screening/diagnostic instruments for ASDs was performed on May 15, 2017. The authors searched PubMed for literature related to the concepts of autism, diagnosis, and survey instruments. The autism concept was searched for using the MeSH terms “Autistic Disorder” or “Autism Spectrum Disorder”, or the presence of the truncated word autis* in the title. The concept of diagnosis was searched for very broadly using the MeSH term “Diagnosis”, the term “screening”, or the truncated word diagno* in the title, abstract, or MeSH terms of the records. The survey instruments concept was searched using the exploded MeSH term “Surveys and Questionnaires” or the truncated word instrument* or the word tool in the title or abstract.
No date restrictions were used. The search was intentionally broad, with a high number of irrelevant results, in order to capture as many unique screening instruments as possible: the initial result set included 970 records; 125 records remained after title/abstract review. As this was an instrument search, the inclusion criterion was simply the presence of a unique instrument used for diagnosis/screening of ASDs. Preference was given to studies that included a complete description or full text of the instrument, such as validation studies. Furthermore, literature reviews related to autism screening were included for full-text review. From these results, the authors created a list of ASD screening and diagnostic instruments, which were then assessed for their relevance and quality. The final list of screening instruments includes high-quality, validated instruments that are commonly used today.

**Impact of early diagnosis on ASD prognosis**

The importance of receiving an early diagnosis of ASD and subsequent early intervention is well-established in the literature. However, in surveying 1,420 parents of children with ASD, Oswald et al found that, despite early parental concerns, children in the ASD group were diagnosed later than children in the developmentally delayed group. Late diagnosis is associated with increased parental stress and delays early intervention, which is critical to positive outcomes over time. This is particularly important because studies have found that interventions implemented before age 4 (eg, 12–48 months) are associated with significant gains in cognition, language, and adaptive behavior. Similarly, researchers have linked the implementation of early interventions in ASD with improvements in daily living skills and social behavior. Collectively, this evidence suggests that early diagnosis and intervention are imperative in the long-term trajectories and quality of life for children with ASD.

**Barriers to early diagnosis**

Although some parents report a suspicion of ASD in the first 12 months, many are told by healthcare providers to “not worry about” common features, such as slow language development or isolative behavior, that can be misinterpreted as shyness. However, clinicians are able to recognize the subtler signs of ASD (eg, language deficits, impaired social relatedness, gaze aversion) and know that a reliable diagnosis can be made by age 2. In fact, ASD can be detected before age 2 using standard screening methods for ASD, such as the Modified Checklist for Autism in Toddlers (MCHAT), and later confirmed using gold standard diagnostic methods, such as the Autism Diagnostic Interview – Revised and Autism Diagnostic Observational Schedule-2. Despite the availability of reliable methods for early diagnosis, the average age at which a child receives a diagnosis of ASD is currently between 4 and 5 years. Thus, there is a great need to minimize the time between when children can receive a diagnosis of ASD and when they are actually diagnosed. Indeed, reducing this gap is vital to improving long-term outcomes related to cognition, language, adaptive behavior, daily living skills, and social behavior.

**Empirically validated screening and assessment**

To facilitate early diagnosis, it is important to raise provider awareness of the current best practice recommendations, which calls for all children to be screened using ASD-sensitive and -specific tools. Table 1 includes screening and diagnostic tools that are well-known in the ASD field and have established sensitivity and specificity; conversely, the table excludes

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Use</th>
<th>Training/special certification required to administer?</th>
<th>Administration method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ages and Stages Questionnaire-Third edition (ASQ-3)</td>
<td>Screening</td>
<td>No</td>
<td>Parent report</td>
</tr>
<tr>
<td>Modified Checklist for Autism in Toddlers-Revised Follow-up (M-CHAT-R/F)</td>
<td>Screening</td>
<td>No</td>
<td>Parent report</td>
</tr>
<tr>
<td>Screening Tool for Autism in Toddlers and Young Children (STAT)</td>
<td>Screening</td>
<td>Yes</td>
<td>Provider interactive</td>
</tr>
<tr>
<td>Social Communication Questionnaire (SCQ)</td>
<td>Screening</td>
<td>No</td>
<td>Parent report</td>
</tr>
<tr>
<td>Autism Diagnostic Observation Schedule-Second Edition (ADOS-2)</td>
<td>Diagnosis</td>
<td>Yes</td>
<td>Certified provider interactive observation</td>
</tr>
<tr>
<td>Autism Diagnosis Interview-Revised (ADI-R)</td>
<td>Diagnosis</td>
<td>Yes</td>
<td>Structured interview of parents</td>
</tr>
<tr>
<td>Childhood Autism Rating Scale-Second Edition (CARS-2)</td>
<td>Diagnosis</td>
<td>No</td>
<td>Clinician rating</td>
</tr>
<tr>
<td>Gilliam Autism Rating Scale–Third Edition (GARS-3)</td>
<td>Diagnosis</td>
<td>No</td>
<td>Teachers and clinicians</td>
</tr>
</tbody>
</table>

Abbreviation: ASD, autism spectrum disorder.
tools that are primarily for treatment planning (eg, the Social
Responsive Scale,37 Vineland Adaptive Behavior,38 Differential
Ability Scale,39 Mullen Scales of Early Learning40).

In summary, early identification of ASD is critical to
ensuring that children with ASD are able to access evidence-
based interventions that mitigate their levels of disability.4,27,28,50 Furthermore, providers must be aware of, and
trained to use, tools that can accurately detect and diagnose
ASD. Additional information regarding ASD instruments can
be found in other reviews published from 2014 to 2016.36,51–53
It is important for providers to have a strong understanding
of ASD in order to appropriately diagnose and link families
to appropriate services.54,55

Parental role in ASD interventions and
shifts with development

Although interventions for preschool age children are com-
mon, researchers in the field of ASD need to develop inter-
ventions that target the unique needs of infants and children
younger than 24 months of age.56 Currently, interventions for
children under 2 years teach parents specific procedures and
strategies to use during daily routines to enrich the child’s
experiences and interactions.56 Similarly, interventions for
infants under 12 months of age focus on parent skills and
responsiveness57,58 in order to enhance the young child’s
first relationships (ie, interactions) with others. Emerging
evidence shows that very early interventions may exert a
strong positive effect on the developmental trajectories of
infants at high-risk of ASD,59 as well as provide benefit for
the parents.56 An expert panel convened by the American
Academy of Pediatrics recommends that clinicians refer
infants or children at risk for ASD as early as possible so that
they can benefit from early interventions.60 Children at risk
for ASD may have a family history of ASD (eg, sibling with
ASD), experience unusual medical events (eg, seizures, gas-
trointestinal [GI] concerns, sleep problems), and/or exhibit
behavioral risk factors that inspire the concern of parents or
physicians.61 Recommendation for early intervention to occur
even before a definitive diagnosis of ASD is made speaks to
the urgency of the need for further development of interven-
tions for infants and children with ASD.

Building social and communication
abilities

For children who receive early childhood ASD services,
intervention focuses heavily on building and fostering social–
relational and communication abilities. An additional corner-
stone of childhood ASD interventions includes developmental
or habilitative therapies.60,61 These therapies not only aim to
minimize any existing delays in communication and social–
relational abilities, but also work to enhance developmental
skill progression across the broad developmental domains of
communication, adaptive functioning (eg, toileting), gross-
and fine-motor skills, and cognitive–perceptual abilities
(Table 2). After developmental delays are minimized, efforts
can be shifted to focus on optimizing developmental trajec-
tories. Therapies begun early can also focus heavily on shaping
development of desired daily routines, such as learning how to
engage with the family at mealtime. For children with difficult
behaviors, undesired behaviors are often easier to physically
redirect in younger, smaller children. Thus, current best prac-
tice recommendations call for combined developmental and
behavioral early intervention approaches for young children
with suspected and confirmed ASD.60,61

Interventional setting

Whether the intervention offered is comprehensive (ie,
dresses multiple developmental areas and/or multiple core
ASD features), or has a specific focus (eg, relational, commu-
nication, behavioral), one common setting is the naturalistic
setting, which is the child’s day-to-day environment such as
the home, daycare, or preschool.62 Interventions within natu-
ralistic settings provide the child with ASD multiple contexts
and opportunities for learning and practicing targeted skills,
behaviors, and routines.62 Naturalistic settings, moreover,
enable the interventionist to harness parental skills while
optimizing parent–child interactions within the context of the
child’s daily routines.62 For example, consider the scenario
of a young child who is identified at risk of developing ASD
with excessive irritability and hyper-reactivity to sounds or
busy environments. For this child, the interventionist could
work with the parents to identify overstimulating situations
or routines within the child’s natural environments and then
Teach the parent ways to prevent overstimulation and facilitate
the child’s recovery from irritating stimuli. Similarly, clinicians
can train parents at home to ameliorate symptoms and promote
the child’s communication skills, social development, sensory
processing abilities, and/or behavioral control within the child’s
everyday life situations.63,64 Indeed, current practice recom-
pendations regarding interventions for children younger than
3 years include active parental, caregiver, and family involve-
ment to achieve optimal functioning of the affected child.60,61

Addressing comorbidities

Regardless of the child’s age, ASD interventions should
address related difficulties60 and challenges brought about or
Table 2  Skills and behaviors targeted in early intervention and childhood ASD therapies

<table>
<thead>
<tr>
<th>Skill/behavior</th>
<th>Examples of skill deficit in ASD</th>
<th>Examples* of interventions used to address the targeted skill/behavior</th>
<th>Examples* of intervention evidence</th>
</tr>
</thead>
</table>
| Development: communication | Difficulties in: orienting and attending to social partners; sharing others’ emotional states; directing others to share experiences; using objects in symbolic play; learning shared meanings | • Joint attention interventions  
• Speech & language therapies  
• Teaching communication skills  
• Communication assistive technologies | • Socially synchronous engagement; 
Landa et al7  
• Joint attention; Murza et al21  
• Picture exchange communication system; Howlin et al23 |
| Development: social | Difficulties with social relationships | • Social interaction therapies between child and parent, adult, another child  
• DIR Floortime  
• Hanen Program – “More than Words” | • Early Social Interaction Project; 
Wetherby and Woods9  
• More than Words; Carter et al9 |
| Development: sensorimotor | Difficulties related to over or under-responding to sensations such as sound, touch, smell, taste, sight. Difficulties with: balance, coordination, physical imitation, and low muscle tone | • Sensory therapies – vision, auditory integration, sensory integration  
• Occupational and physical therapies | • Sensory intervention; Schaaf et al74  
• Motor skills; Srinivasan et al25 |
| Development: cognitive | Difficulties in: learning; information processing; acquiring skills | • Instructional/educational strategies and settings  
• TEACCH program  
• Toilet training  
• Dressing, bathing and mealtime training | • Mealtime behaviors; Johnson et al77 |
| Adaptive behaviors | Difficulties with performing daily activities in a socially responsible way such as eating a meal at mealtime in a way that is participatory of sharing the meal and not disruptive | • Applied behavioral analysis-based therapies  
• Comprehensive treatment programs  
• Early intensive interventions  
• Communication training | • Early intensive; Warren et al18  
• Early Start Denver Model; Dawson et al21  
• LEAP Model; Strain and Bovey79 |
| Problem behaviors | Difficulties in self-managing behaviors which involve tantrums, self-injury, physical aggression, destruction of objects or property | | |

Notes: *Interventions included can be used to address the behavior/skill indicated, but may also be used to address the development and/or shaping of other behaviors/skills.  
*Studies included are examples of existing evidence and are not indicative of the strength of the evidence.

Abbreviations: ASD, autism spectrum disorder; LEAP, Learning Experiences and Alternative Program for Preschoolers and their Parents.

Exacerbated by existing comorbid conditions, such as emotional dysregulation, GI disturbances,65 attention-deficit hyperactivity disorder,66 learning disability,67 anxiety and depression,58,60 sleep disturbances,65 sensory sensitivities,21 and motor difficulties.39 Moreover, interventions may need to address the child’s challenging behaviors that can be aggravated by the presence of inflexible behaviors and/or thinking. The impacts of co-occurring conditions and behavioral difficulties may increase the stress of both the child and families, especially as the child grows older and is expected to engage with others within the classroom and community (eg, sports leagues, clubs).

Tailoring interventions over the life course
Because ASD is a neurobiological disorder, symptoms persist and change throughout the life span. In order to effectively address these changes, the focus of interventions shifts over time. For example, interventions for young children focus on developmental skill enhancement, whereas interventions for adolescents focus on the attainment of, and engagement in, functional activities such as regularly cleaning their living space and living independently. With progression into young adulthood, the focus of interventions again shifts toward engagement in young adult social roles and attainment of independence, such as participating in post-secondary educational or work settings.71 As a result, roles of parents and families in facilitating and engaging within the interventions also change over time. For example, when the child is very young, parents play a central role in implementing recommended therapeutic strategies. However, as the child matures through adolescence and adulthood, parents shift to facilitating the youths’ and young adults’ strategic use of supportive environments, routines, and services. Clinical providers can better help families anticipate and prepare for these shifts when they adopt a life-course perspective for treatment of ASD.

Effects of ASD on the parent–child relationship and implications of early diagnosis
Sources of stress
Reports indicate that parents and family members without adequate support and direction can experience extreme
stress, especially around the tumultuous time of diagnosis. Research has shown that families of children with ASD report more stress than families of children with other disabilities, perhaps because hallmarks of ASD — unpredictable behavior, disinterest in affection, and aloofness — present unique challenges to parents. Parents may feel ill-equipped to deal with these challenges, and may not know where to turn for support. In addition, treatment costs are high, and many parents may drop out of the workforce to care full-time for their child with ASD, leading to a significant financial burden on families. To date, there have been few evidence-based options for parents and families to alleviate the stress related to having a child with ASD.

Value of the parent–professional relationship

However, there is some evidence that a good parent–professional relationship can help mitigate this stress. For example, in a qualitative study of 10 Chinese families, Ho et al found that the quality of the parent–professional partnership determined how well families reacted to a diagnosis of ASD. Similar findings about the importance of the parent–professional relationship were noted in an earlier Scottish study, where 126 participants responded to a “questionnaire package”, as well as in an exploratory Dutch study of 77 parents who completed a Reaction to Diagnosis Interview. Collectively, these findings suggest that, while acquiring and accepting an ASD diagnosis can be difficult for families, a key to successfully navigating through this time is a positive parent–professional relationship.

Navigators and acquiring social support

Another way that parents may relieve stress related to caring for a child with ASD is to find a “navigator” who can assist them from the time of diagnosis until they secure appropriate services for their child. This concept was a dominant theme in the authors’ recently conducted focus groups with families of individuals with ASD. Indeed, one mother reported experiencing significant stress because she expended a considerable amount of time and money on treatments that had no positive effect on her child with ASD. She stated that an informed navigator along with centralized, dependable resources would have helped her through this stressful phase and toward the use of evidence-based interventions with her child.

The literature provides evidence that social support is vital to helping families relieve stress associated with caregiving for a child with ASD. Indeed, Ingersoll and Hambrick note that acquiring informal social support is especially important at the time of diagnosis. Brobst et al report that both fathers and mothers of children with ASD are affected by stress, especially if the child exhibits severe behaviors (eg, tantrums, aggression), and that this stress can negatively affect the marital relationship. To counteract this stress, Twoy et al recommend “external family coping strategies”, including community, social, and spiritual support, as well as the informal support and respite care provided by friends and family. In 2007, Mandell and Salzer found that two-thirds of a group of 1,005 caregivers of children with ASD had participated in support groups and, in 2013, Clifford and Minnes reported similar results in their study of 149 parents of children with ASD. In both of these studies, there was evidence that parents who currently attended support groups had more adaptive coping strategies than non-attenders. Currently, online support groups are gaining popularity, perhaps because they are more practical than in-person meetings for families with demanding schedules.

Addressing differences in stress reactions

Intervening early with children at risk for ASD and tailoring interventions to parents and families are critical ways to protect child and family wellbeing. Intervening professionals may find it helpful to examine how parents react to receiving and accepting an ASD diagnosis. Although there appear to be some patterns in how families react to a diagnosis, there are some individual variations. For example, some parents express relief at finally receiving a conclusive diagnosis after prolonged periods of uncertainty. In other cases, parents experience the well-documented grieving process: denial, anger, depression, and acceptance. Eventually, parents must accept that, although their child appears similar to other children in many respects, he/she has limitations that may require revised expectations and future plans. For example, a parent may have envisioned his/her child as a famous orator but realizes that goals may need to be adapted due to the ASD features. Parents may also express anger and ask, “Why us? Why our child?”, and this anger may be intensified if professionals have been inattentive to their concerns. Although parental anger may be challenging for service providers to handle, these professionals should recognize that anger is part of the grieving process and try to empathize with parents to ensure healthy coping and adaptation.

Clinicians should note, however, that once parents have accepted a diagnosis, it is common for them to set out frantically in search of “a cure”. During this phase, parents and families are particularly vulnerable and can fall prey to false claims of “cures” from a variety of sources, many of which
are on the Internet. Service providers must recognize this potential danger, and direct families to credible information sources while correcting inaccurate information and “myths” of a cure.26,30

Helping families adapt
Familial perceptions of the ASD diagnosis play an important role in how they ultimately adapt as a family unit. For example, Cappe et al31 found that perceiving experiences as a loss or threat significantly predicts poor adaptation, whereas Ekas et al34 assert that optimism and the maintenance of hope improve adaptation. While some families are naturally more optimistic than others, such an outlook can be cultivated by supportive professionals.

Studies have also shown that successful families are creative, flexible, and willing to try new things.32 For example, in the first author’s experience, one family developed a creative means of promoting appropriate eye contact by rewarding the young girl when she could recall the color of visitors’ eyes after they had been in the home. Research also shows that knowledgeable professionals can improve adaptation to diagnosis, which can lead to stronger family units and feelings of hope for the future.26

Limitations
The field of ASD research is rapidly changing with the addition of many new diagnostic and screening instruments and interventions. This review describes commonly used instruments that are, to date, frequently cited in the literature. We sought to illustrate a broad range of ASD symptoms and experiences that are reflective of the heterogeneity in both ASD symptomatology and co-occurring conditions. We highlighted a limited range of skills and behaviors that are targeted in ASD early intervention and, thus, narrowed our focus on a sample of behavioral, educational/developmental, and psychosocial ASD approaches. However, it is important to note that ASD interventions can also include pharmacological, medical, dietary, and technological options, which were not included in this review. Furthermore, it is noteworthy that, within the range of ASD interventions and approaches in our review, several can be used to address multiple symptoms and/or targeted behaviors and skills. For example, behavioral interventions are not restricted to the treatment of problem behaviors; they can also be used to target communication and/or adaptive functioning. There are other instruments and interventions being developed with much potential for improving outcomes for individuals with ASD and their families.

Conclusion
This article highlights the importance of early diagnosis and intervention as well as family support for individuals with ASD. While major advances have been made in the field, it is clear that more provider education is needed, together with timely, empathetic, and ongoing support to families of children with ASD. As previously mentioned, ASD is a lifelong condition and families must learn to shift their focus on therapies as their child grows into adulthood. Effective communication between providers and families is the key to building supportive relationships that can positively affect not only the individual with ASD but also the family over a lifetime.

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Author contributions
All authors contributed toward data analysis, drafting and critically revising the paper and agree to be accountable for all aspects of the work.

Disclosure
The authors report no conflicts of interest in this work.

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